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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/613,015	07/07/2003	Chul-Hee Lee	P56894	6582

7590 02/05/2008
Robert E. Bushnell
Suite 300
1522 K Street, N.W.
Washington, DC 20005-1202

EXAMINER

GAUTHIER, GERALD

ART UNIT	PAPER NUMBER
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2614

MAIL DATE	DELIVERY MODE
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02/05/2008

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/613,015

Applicant(s)

LEE, CHUL-HEE

Examiner

Gerald Gauthier

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 07 July 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-16 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-16 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 07 July 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
- 1) ☒ Certified copies of the priority documents have been received.
 - 2) ☐ Certified copies of the priority documents have been received in Application No. _____.
 - 3) ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date 7/07/03.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. **Claims 1-16** are rejected under 35 U.S.C. 102(e) as being anticipated by Motley (US 6,721,282 B2).

Regarding **claims 1, 5 and 12**, Motley discloses an apparatus, comprising:

a converting unit receiving a voice signal and performing at least one selected from among analog to digital conversion and digital to analog conversion on the voice signal (column 2, lines 37-56);

a first processor receiving the Voice signal from said converting unit, storing a plurality of procedures, the procedures conforming to predetermined standards of a plurality of voice communication modes, the plurality of voice communication modes including a selected mode, said first processor performing the stored procedure corresponding to the selected mode to cause the voice signal to comply with the predetermined standard corresponding to the selected mode, the selected mode being

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a mode selected from at least a voice over Internet protocol mode, a voice over digital subscriber line mode, and a voice over multi-service broadband networks mode (column 2, lines 30-36);

a digital tone generating unit storing a plurality of sources of tones for phone functions, storing tones corresponding to the plurality of voice communication modes, generating at least one tone corresponding to the selected mode (column 4, lines 26-38);

a multiplexer receiving and multiplexing the at least one tone from said digital tone generating unit and the processed voice signal from said first processor, and outputting the multiplexed signal to said converting unit (column 16, lines 1-18);

a second processor confirming the selected mode and outputting information identifying the confirmed selected mode to said digital tone generating unit and to said first processor (column 13, lines 33-43);

a relay switch receiving an off signal from said second processor and interrupting a central office phone line when a predetermined code is selected, the predetermined code corresponding to the voice communication modes including digital network services, and maintaining an on state when a general central office phone digit is selected (column 4, lines 26-38);

a third processor being in communication with said second processor, supporting communication during transmission of asymmetric digital subscriber line data, said third processor removing generated noise (column 9, lines 46-50); and

an analog front end being in communication with said third processor, supporting matching of an asymmetric digital subscriber line, and enabling bi-directional dual communication of the asymmetric digital subscriber line data (column 9, lines 57-65).

Regarding **claims 2, 6, 9 and 13**, Motley discloses an apparatus, with said first processor setting a default mode to be one mode from among the plurality of voice communication modes (column 9, lines 57-65).

Regarding **claims 3, 7, 10 and 14**, Motley discloses an apparatus, with the default mode being determined in dependence upon a call type most commonly used (column 10, lines 30-42).

Regarding **claims 4, 8, 11, 15 and 16**, Motley discloses an apparatus, said first processor corresponding to a voice digital signal processor, said third processor corresponding to an asymmetric digital Subscriber line digital signal processor, the apparatus corresponding to a composite voice service terminal (column 10, lines 42-65).

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Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gerald Gauthier whose telephone number is (571) 272-7539. The examiner can normally be reached on 8:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Fan Tsang can be reached on (571) 272-7547. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Gerald Gauthier/
Primary Examiner
Art Unit 2614

/GG/
January 25, 2008